

## Appendix B: COUNTY LEVEL SUMMARIES

### COUNTY-BY-COUNTY WATER FACILITY CAPACITY AND EXPANSION SCHEDULE

This Appendix outlines the schedule for expanding water facility treatment capacities in the Metro Water District. Appendix B details the capital projects and non-capital programs specific to each county in the Metro Water District. Capital projects include new water treatment facilities, as well as facility expansions. Non-capital programs include planning, intergovernmental agreements and other studies necessary to protect water resources and facilitate planned expansions.

The schedule shown is intended to be a general guideline to identify water supply and treatment needs through the planning horizon of 2035. In Appendix B, the expansion capacities are intended to be in operation before the end of the period shown, however planning, design and construction of expansions or new supplies may begin in the previous period. Actual timing of new or expanded facilities or supplies will occur when local growth and planning indicates the need for additional capacity.

Appendix B focuses on facility capacity and does not reflect upgrades to the level of treatment at existing water facilities. Facility capacities listed in Appendix B of the Water Supply and Water Conservation and Wastewater Management Plans for each planning period are considered as maximums and that local jurisdictions may plan within and up to that capacity. All new facilities and facility expansions identified in Appendix B are subject to permitting by Georgia EPD and must meet all state standards associated with the necessary permits. Inclusion within this plan does not guarantee a permit, however facilities must be reflected within Appendix B to initiate permitting discussions with Georgia EPD.

#### PLANT CAPACITIES

Plant capacities, listed in Appendix B, were determined to meet or exceed the projected 2035 peak day water demand. It is recognized that plant capacity is added in convenient increments and not to match a specific projected flow. At times, it may be desirable to construct somewhat more capacity than is shown in Appendix B to add a convenient increment of capacity. For example, if a WTP with 5 MGD capacity needs to handle a projected demand of 8 MGD, the most cost efficient plan may be to double the current capacity to 10 MGD. The convenient increments of plant capacity for expansion projects should be determined through local water master plans tailored both to the facility and the community.

The projections of plant capacity in Appendix B were based on a District-wide average peaking factor of 1.6 (peak day/average annual day). This peaking factor was calculated for the 2003 Water Supply and Water Conservation Management Plan and is considered appropriate for the 2008 Plan. In reality, due to variations in system storage and unaccounted-for-water, the peaking factors will vary for each local water provider. Each local water provider must determine an appropriate peaking value and the impacts of water conservation measures on future flows in the local water master plans.

Significant proposed changes in plant capacity will be evaluated against the essential elements of the Water Supply and Water Conservation Management Plan through the Plan Amendment process, outlined in Section 14. Minor changes in phasing of capacity are considered consistent with this Water Supply and Water Conservation Management Plan and do not require an amendment.

### PHASING

The capital improvement project phasing shown in Appendix B was developed to provide adequate treatment capacity for the projected water demands in that phase, and to make steady progress toward implementing the essential elements of the Water Supply and Water Conservation Management Plan. Within this context, the timeframe for capital improvements in Appendix B is flexible. For example, delaying the date that a plant is decommissioned is generally acceptable. Expanding a plant in more or fewer projects is also generally acceptable. The local water master plans are expected to delve into the timeframes for capital improvements in greater detail than this regional Water Supply and Water Conservation Management Plan.

### PERMITTING

In several instances, planning for future water supplies and shared water supply allocations are recommended for local water providers within the same county. Resolution of disputes between member jurisdictions over county-level water allocations contained in this Water Supply and Water Conservation Management Plan shall be made by the jurisdictions and local water providers prior to application for any permits by Georgia EPD. Treatment capacity may not be expanded without the issuance of a new or amended water withdrawal permit if the proposed expansion will expand the treatment capacity beyond the currently permitted water withdrawal limits.

## Appendix B: COUNTY LEVEL SUMMARIES

### Bartow County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Bartow County	46	74
<b>Total Projected Demand</b>	<b>46</b>	<b>74</b>
2006 Treatment Capacity	20	32
Additional Capacity Needed by 2035	26	42

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Lewis Spring	Adairsville	4.1	4.5	6.0
Moss Springs	Emerson	0.5	0.5	0.5
Bolivar Springs	Bartow Co.	0.8	0.8	0.8
Allatoona Lake	Cartersville/			
Etowah River	Bartow County*	23	52.5	70.0
<b>Sum</b>		<b>28.4</b>	<b>58.3</b>	<b>77.3</b>

\* The current intake is only permitted to Cartersville. Future intakes on the Etowah may be a joint permit between Cartersville and Bartow County.

#### Capital Projects

- The Adairsville WTP is retained and expanded as necessary to serve its current service area.
- A local plan should be developed jointly by Bartow County and the City of Cartersville to decide between Option 1 and Option 2 before applying for permits from Georgia EPD.
- Option 1 - Expand Cartersville WTP from 27 mgd to 70 PD-MGD to meet growth in demand, with the exception of Adairsville.
- Option 2 - Build two new WTPs to withdraw from either Lake Allatoona or the Etowah River, to be expanded together with the Cartersville WTP to meet the growth in demand, with the exception of Adairsville.

#### Option 1 Phasing Plan

Facilities (Note 1)	Sources	By 2010		2011 to 2015			2016 to 2025			2026 to 2035			
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Adairsville WTP	Lewis Spring	No expansions		4.0	Expand	2.0	6.0	No expansions		6.0	No expansions		6.0
Cartersville WTP	Lake Allatoona	No expansions		27.0	Expand	23.0	50.0	Expand	10.0	60.0	Expand	10.0	70.0
Emerson WTP	Moss Springs	No expansions		0.5	No expansions		0.5	No expansions		0.5	No expansions		0.5
Bartow County WTP	Bolivar Springs	No expansions		0.8	No expansions		0.8	No expansions		0.8	No expansions		0.8
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>				<b>32.3</b>	<b>45 in Bartow</b>		<b>57.3</b>	<b>58 in Bartow</b>		<b>67.3</b>	<b>74 in Bartow</b>		<b>77.3</b>

#### Option 2 Phasing Plan

Facilities (Note 1)	Sources	By 2010		2011 to 2015			2016 to 2025			2026 to 2035			
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Adairsville WTP	Lewis Spring	No expansions		4.0	Expand	2.0	6.0	No expansions		6.0	No expansions		6.0
Cartersville WTP	Lake Allatoona	No expansions		27.0	Expand	5.0	32.0	Expand	4.0	36.0	Expand	4.0	40.0
Bartow North End WTP (Note 2)	Etowah River				New Construction		10.0	Expand	5.0	25.0	Expand	5.0	30.0
Bartow South End WTP (Note 2)	Etowah River				New Construction		10.0	Expand					
Emerson WTP	Moss Springs	No expansions		0.5	No expansions		0.5	No expansions		0.5	No expansions		0.5
Bartow County WTP	Bolivar Springs	No expansions		0.8	No expansions		0.8	No expansions		0.8	No expansions		0.8
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>				<b>32.3</b>	<b>45 in Bartow</b>		<b>59.3</b>	<b>58 in Bartow</b>		<b>68.3</b>	<b>74 in Bartow</b>		<b>77.3</b>

Notes:

- Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.
- The planned facility expansion will happen at one of these facilities based on local growth patterns and local master plans.

#### Non-Capital Programs

The following non-capital programs are specific to Bartow County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain existing interconnections and water supply agreements with Cherokee and Polk Counties.
- Carry out joint planning studies between Bartow County and the City of Cartersville.

## Appendix B: COUNTY LEVEL SUMMARIES

### Cherokee County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Cherokee County	45	72
From CCMWA	1	2
<b>Total Projected Demand</b>	<b>44</b>	<b>70</b>
2006 Treatment Capacity	27	43.45
Additional Capacity Needed by 2035	17	27

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Latham (Yellow Creek) Reservoir	CCWSA	36	39.8	53.0
Etowah River	Canton	5.45		
Hickory Log Reservoir (filled by Etowah River)	Canton/CCMWA	0	13.5	18.0
<b>Sum</b>		<b>41.45</b>	<b>53.3</b>	<b>71.0</b>

#### Capital Projects

- CCWSA should expand its Etowah River WTP from 38 to 53 PD-MGD. CCWSA has plans to sell water to utilities outside of the Metro Water District. These plans are not precluded by the Metro Water District Plan, but expansion will need to be permitted by Georgia EPD. Counties outside the Metro Water District have 20 MGD reserved from the ACT basin independent of supplies for the Metro Water District. Therefore, if these counties are served by Cherokee, it does not reduce water supplies from the Etowah sub-basin available to the Metro Water District.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Canton WTP	Hickory Log Reservoir (filled by Etowah River)	No expansions		5.45	Expand	12.55	18.0	No expansions		18.0	No expansions		18.0
CCWSA Etowah River WTP	Latham (Yellow Creek) Reservoir	No expansions		38.0	No expansions		38.0	Expand	10.0	48.0	Expand	5.0	53.0
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>39 in Cherokee -2 from CCMWA</b>		<b>37 Total</b>	<b>43 in Cherokee -2 from CCMWA</b>	<b>41 Total</b>	<b>56.0</b>	<b>54 in Cherokee -2 from CCMWA</b>	<b>52 Total</b>	<b>66.0</b>	<b>72 in Cherokee -2 from CCMWA</b>	<b>70 Total</b>	<b>71.0</b>

Notes:  
1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Cherokee County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain existing interconnections and water supply agreements with Pickens, Forsyth, Cobb and Bartow Counties.

## Appendix B: COUNTY LEVEL SUMMARIES

### Clayton County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Clayton County	40	64
<b>Total Projected Demand</b>	<b>40</b>	<b>64</b>
2006 Treatment Capacity	26	42
Additional Capacity Needed by 2035	14	22

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Flint River	Clayton	fills Smith & Shoal Cr. Res.	59.3	79.0
Smith/Shoal Creek Reservoir	Clayton	17		
Hooper Res. (Little Cotton Indian Creek)	Clayton	20		
Blalock (Pates Creek) Reservoir	Clayton	10		
<b>Sum</b>		<b>47</b>	<b>59.3</b>	<b>79.0</b>

#### Capital Projects

- Projections indicate that water sources should be adequate through 2035. Clayton County should expand its three WTPs according to a local plan. Infrastructure should be kept in place to allow transfers from the City of Atlanta to fill peak demands on an emergency basis.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035											
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)									
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)										
Clayton Hicks WTP	Blalock (Pates Creek) Reservoir	No expansions		10.0	Expansion of one facility	23.0	65.0	Expansion of one facility	8.0	73.0	Expansion of one facility	6.0	79.0									
Clayton Hooper WTP	Hooper Reservoir (Little Cotton Indian Creek)	No expansions		20.0																		
Clayton Smith WTP	Smith/Shoal Creek Reservoir (fed by Flint River)	No expansions		12.0																		
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>42</b>			<b>54 in Clayton</b>			<b>65</b>			<b>57 in Clayton</b>			<b>73</b>			<b>64 in Clayton</b>			<b>79</b>		

Notes:

1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Clayton County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain existing interconnections and water supply agreements with Fayette, Henry and DeKalb Counties and the City of Atlanta.

## Appendix B: COUNTY LEVEL SUMMARIES

### Cobb County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Cobb County	109	174
To Paulding County	23	36
To Douglas County	10	16
To Cherokee County	1	2
<b>Total Projected Demand</b>	<b>143</b>	<b>228</b>
2006 Treatment Capacity	99	158
Additional Capacity Needed by 2035	44	70

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Allatoona Lake	CCMWA	78		
Hickory Log Creek Reservoir (filled by Etowah River)	Canton/CCMWA	0	106.5	142
Chattahoochee River	CCMWA	87	87	106
<b>Sum</b>		<b>165</b>	<b>193.5</b>	<b>248</b>

#### Capital Projects

- Cobb County-Marietta Water Authority (CCMWA), in conjunction with the City of Canton, have constructed the Hickory Log Creek Reservoir. The Wyckoff WTP may now expand to treat more water. It is recommended that the CCMWA Wyckoff WTP be expanded significantly over the next thirty years. It is also recommended that CCMWA continue to sell wholesale water to Paulding and DDCWSA in the future per intergovernmental agreements

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
CCMWA Quarles WTP	Chattahoochee River	No expansions		86.0	No expansions		86.0	No expansions		86.0	Expand	20.0	106.0
CCMWA Wyckoff WTP	Lake Allatoona	No expansions		72.0	Expand	36.0	108.0	Expand	12.0	120.0	Expand	22.0	142.0
	Hickory Log Reservoir (filled by Etowah River)	New reservoir											
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>133 in Cobb</b> <b>26 to Paulding</b> <b>1 to DDCWSA</b> <b>2 to Cherokee</b> <b>162 Total</b>		<b>158</b>	<b>150 in Cobb</b> <b>36 to Paulding</b> <b>4 to DDCWSA</b> <b>2 to Cherokee</b> <b>192 Total</b>		<b>194</b>	<b>157 in Cobb</b> <b>36 to Paulding</b> <b>11 to DDCWSA</b> <b>2 to Cherokee</b> <b>206 Total</b>		<b>206</b>	<b>174 in Cobb</b> <b>36 to Paulding</b> <b>16 to DDCWSA</b> <b>2 to Cherokee</b> <b>228 Total</b>		<b>248</b>

Notes:

1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Cobb County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with Cherokee, DDCWSA and Paulding Counties.
- Evaluate the required improvements to accommodate peak sale of 16 PD-MGD to DDCWSA and 36 PD-MGD to Paulding County.

## Appendix B: COUNTY LEVEL SUMMARIES

### Coweta County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Coweta County	29	46
From City of Atlanta	-6	-10
From Still Branch Reservoir/Griffin	-5	-7.5
<b>Projected Demand Needs</b>	<b>18</b>	<b>29</b>
2006 Treatment Capacity	14	22.15
Additional Capacity Needed by 2035	4	7

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Still Branch Crk Res. (purchased)	Coweta	1.68	7.5	7.5
Cedar Creek (B.T. Brown Res.)	Coweta	6.7	7.5	10
J.T. Haynes Reservoir	Newnan	14		
Sandy Brown Creek	Newnan			
White Oak Creek	Newnan			
Line Creek	Newnan		15.8	21
Hutchins' Lake (Keg Creek)	Senoia	0.3	0.45	0.6
Chattahoochee Options	Coweta	N/A	8	10
<b>Sum</b>		<b>22.68</b>	<b>39.25</b>	<b>49.1</b>

#### Capital Projects

- The BT Brown WTP should be expanded to 10 PD-MGD to fully utilize the yield of the Cedar Creek Reservoir. The Newnan WTP should be expanded to 21 PD-MGD. This capacity will fully utilize the current WTP site and approaches the yield of the existing water sources for the WTP. To meet water demands, a local plan should be developed by Coweta County to decide among:
  - Option 1: Transfers (wholesale purchases) from the City of Atlanta (Recommended transfers outlined are presented in the phasing plan below).
  - Option 2 (to be used alone or in combination with Option 1): Build a new WTP to withdraw from the Chattahoochee River with advanced treatment technologies. Project would be based on a joint plan develop by Coweta County and City of Atlanta.

#### Option 1 Phasing Plan

Facilities (Notes 1,2,3)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Coweta - B.T. Brown WTP	Cedar Creek (BT Brown) Reservoir	No expansions		7.7	Expand	0.7	8.4	Expand	1.6	10.0	No expansions		10.0
Newnan - Hershall Norred WTP	JT Haynes Reservoir (filled by Sandy Brown Creek, White Oak Creek and Line Creek)	No expansions		14.0	Expand	2.0	16.0	Expand	1.0	17.0	Expand	4.0	21.0
Senoia WTP	Hutchins' Lake (Keg Creek)	No expansions		0.45	Expand	0.15	0.6	No expansions		0.6	No expansions		0.6
Distribution System Connection with City of Atlanta								Initial Construction		--	No expansions		--
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>20.6 in Coweta -2.4 from Griffin -4 from Atlanta</b>		<b>22.15</b>	<b>23.2 in Coweta -4.2 from Griffin -5 from Atlanta</b>		<b>25.0</b>	<b>31.2 in Coweta -7.5 from Griffin -5 from Atlanta</b>		<b>27.6</b>	<b>47 in Coweta -7.5 from Griffin -10 from Atlanta</b>		<b>31.6</b>
		<b>14.2 Total</b>			<b>14 Total</b>			<b>18.7 Total</b>			<b>29.5 Total</b>		

#### Option 2 Phasing Plan

Facilities (Notes 1,2,3)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period	Proposed Projects		Plant Capacity at End of Period	Proposed Projects		Plant Capacity at End of Period	Proposed Projects		Plant Capacity at End of Period
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Coweta - B.T. Brown WTP	Cedar Creek (BT Brown) Reservoir	No expansions		7.7	Expand	0.7	8.4	Expand	1.6	10.0	No expansions		10.0
Newnan - Hershall Norred WTP	JT Haynes Reservoir (filled by Sandy Brown Creek, White Oak Creek and Line Creek)	No expansions		14.0	Expand	2.0	16.0	Expand	1.0	17.0	Expand	4.0	21.0
Senoia WTP	Hutchins' Lake (Keg Creek)	No expansions		0.45	Expand	0.15	0.6	No expansions		0.6	No expansions		0.6
New Chattahoochee WTP	Chattahoochee River							Initial Construction	10.0	10.0	No expansions		10.0
<b>Demand Projections &amp;</b>		<b>20.6 in Coweta</b>		<b>22.15</b>	<b>23.2 in Coweta</b>		<b>25.0</b>	<b>31.2 in Coweta</b>		<b>37.6</b>	<b>47 in Coweta</b>		<b>41.6</b>

#### Notes:

- Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.
- Still Branch Creek reservoir is located outside of the District and is owned by the City of Griffin. Reservoir serves Pike and Spalding Counties as well as Coweta County. Coweta County has a purchase contract for 1.68 MGD of finished water (for 2008) from the City of Griffin which escalates at 0.36 MGD/year for an ultimate 7.5 MGD.
- Coweta County should review development of smaller local resources within the County.

#### Non-Capital Programs

The following non-capital programs are specific to Coweta County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with the City of Atlanta and City of Griffin.
- Reassess the safe yield of the Cedar Creek Reservoir, Sandy Brown Creek, White Oak Creek and Line Creek reservoirs using procedures outlined in the forthcoming Statewide Water Plan.

## Appendix B: COUNTY LEVEL SUMMARIES

### DeKalb County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
DeKalb County	106	170
<b>Total Projected Demand</b>	<b>106</b>	<b>170</b>
2006 Treatment Capacity	80	128
Additional Capacity Needed by 2035	26	42

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Chattahoochee River	DeKalb Co.	140	140	175
Sum		140	140	175

#### Capital Projects

Expand Scott Candler WTP to meet future demands.

#### Phasing Plan

Facilities (Notes 1, 2)	Source	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
DeKalb Scott Candler WTP	Chattahoochee River	Expand	22.0	150.0	Expand	15.0	165.0	Expand	10.0	175.0	No expansions		175.0
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>				<b>150</b>	<b>153 in DeKalb</b>		<b>165</b>	<b>158 in DeKalb</b>		<b>175</b>	<b>170 in DeKalb</b>		<b>175</b>

Notes:

- 1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.
- 2) The City of Atlanta portion of DeKalb County is being served by Atlanta-Fulton County Water Resources Commission.

#### Non-Capital Programs

The following non-capital programs are specific to DeKalb County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with Gwinnett, Rockdale, Henry and Clayton Counties and the City of Atlanta.



## Appendix B: COUNTY LEVEL SUMMARIES

### Douglas County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Douglas County	25	40
From CCMWA	-10	-16
<b>Projected Demand Needs</b>	<b>15</b>	<b>24</b>
2006 Treatment Capacity	11	17.9
Additional Capacity Needed by 2035	3	6.5

CCMWA = Cobb County-Marietta Water Authority

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Dog River Reservoir	DDCWSA	23	23	23
Bear Creek Reservoir	DDCWSA	To maintain in-stream flows		
Lake Fashion/ Cowan Lake	Villa Rica	1.5	2.25	3.0
<b>Sum</b>		<b>24.5</b>	<b>25.25</b>	<b>26</b>

#### Capital Projects

- The DDCWSA should proceed with plans to raise the dam at its Dog River Reservoir to increase the yield of this source (the increased withdrawal has been permitted). Infrastructure from Cobb County should be updated to allow larger transfers from CCMWA.
- The DDCWSA plans to design and construct a flow augmentation project to augment the 7Q10 release from the Dog River Reservoir.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
DDCWSA Bear Creek WTP	Dog River Reservoir	Expand	6.64	23.0	No expansions		23.0	No expansions		23.0	No expansions		23.0
Villa Rica Franklin Smith WTP (Note 2)	Lake Fashion/ Cowan Lake	No expansions		1.5	Expand	1.5	3.0	No expansions		3.0	No expansions		3.0
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>23 in Douglas -1 from CCMWA 22 in Douglas</b>		<b>24.5</b>	<b>24 in Douglas - 4 from CCMWA 20 in Douglas</b>		<b>26.0</b>	<b>30 in Douglas - 11 from CCMWA 19 in Douglas</b>		<b>26.0</b>	<b>40 in Douglas - 16 from CCMWA 24 in Douglas</b>		<b>26.0</b>

Notes:

- Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.
- The Villa Rica Franklin Smith WTP is located in Carroll County. This plant provides service to areas both inside and outside Douglas County. The full plant capacity is reflected in the table above.

#### Non-Capital Programs

The following non-capital programs are specific to Douglas County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with Cobb County.
- Determine required improvements to accommodate routine purchase of 16 PD-MGD from CCMWA.

## Appendix B: COUNTY LEVEL SUMMARIES

### Fayette County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Fayette County	23	37
<b>Total Projected Demand</b>	<b>23</b>	<b>37</b>
2006 Treatment Capacity	14	22.7
Additional Capacity Needed by 2035	9	14

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Flint River	Fayette Co.	Fills Lake Horton		
Whitewater Creek	Fayette Co.	Fills Lake Horton		
Flat Creek (Lake Kedron/Peachtree)	Fayette Co.	4.5		
Lake Horton (Horton Creek)	Fayette Co.	14		
Lake McIntosh (Line Creek)	Fayette Co.	12.5	31	35
Whitewater Creek	Fayetteville	3	3	4
<b>Sum</b>		<b>34</b>	<b>34.0</b>	<b>39</b>

#### Capital Projects

- The City of Fayetteville should build the new off-stream storage reservoir, Whitewater Creek, that is currently in early planning stages. This will give Fayetteville a reliable water source and allow their WTP to operate through droughts, which in past years would force a shut-down of the WTP. The Fayetteville WTP is currently rated to run at 4 PD-MGD, but is limited by the withdrawal permit of 3 PD-MGD.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035			
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		
Fayette Crosstown WTP	Flat Creek (Lake Kedron/Peachtree), Line Creek (Lake McIntosh), Lake Horton (Horton Creek) (fed by Flint River and Whitewater Creek)	No expansions		13.5	No expansions		13.5	Expand	6.0	19.5	Expansion of one facility	6.3	35	
South Fayette WTP		Expand	3.0	9.2	No expansions		9.2	No expansions		9.2				
Fayetteville WTP	Whitewater Creek	No expansions		3.0	New off-stream storage	1.0	4.0	No expansions		4.0	No expansions		4.0	
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>25.7</b>			<b>22.8 in Fayette</b>			<b>26.7</b>	<b>28.9 in Fayette</b>		<b>32.7</b>	<b>37.0 in Fayette</b>		<b>39.0</b>

Notes:

1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Fayette County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with the City of Atlanta and Clayton County.
- Reassess the safe yield for the Lake McIntosh Reservoir, Horton Creek Reservoir, and the Lake Peachtree/Lake Kedron Reservoirs using procedures outlined in the forthcoming Statewide Water Plan.

## Appendix B: COUNTY LEVEL SUMMARIES

### Forsyth County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Forsyth County	60	96
<b>Total Projected Demand</b>	<b>60</b>	<b>96</b>
2006 Treatment Capacity	24	38
Additional Capacity Needed by 2035	36	56

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Lake Lanier	Forsyth Co.	14	51	68
Etowah Source		0	(Note 1)	
Bannister Creek		0		
Chattahoochee River		0		
Lake Lanier	Cumming	18	27	36
<b>Sum</b>		<b>32</b>	<b>78</b>	<b>104</b>

#### Capital Projects

- Lake Lanier may continue to be used as the water source for all of Forsyth County including the City of Cumming. Both the Cumming WTP and the Forsyth County WTP should be expanded. Apportionment of capacity between the Forsyth County and City of Cumming should be based on the needs and growth of their respective service areas. The City of Cumming's intake and raw water infrastructure is sized to accommodate all of the County's needs from Lake Lanier. If water storage is not granted by the US Army Corps of Engineers, Forsyth County may:
  - Apply for a water withdrawal from the Chattahoochee River which, if issued, may necessitate construction of a new WTP near the intake location; the existing WTP may be required to be taken off-line
  - Apply for a combination water withdrawal from the Chattahoochee River and Lake Lanier; a new WTP may be needed near the river intake location

Forsyth County may be partially served from Etowah sources. These sources are listed as Etowah off-stream reservoir and Bannister Creek in Section 6. Possible Etowah Basin contingency water supply options would be:

- The Cherokee County system could be extended to serve parts of western Forsyth County. To meet this new demand along with projected demands in Cherokee as well as possible future demands in Pickens and Dawson Counties, Cherokee may need to identify an additional source to supplement its current source, the Yellow Creek Reservoir.
- Cherokee, Forsyth, Dawson and Pickens Counties have considered constructing a new Upper Etowah Basin reservoir as a joint project (location to be determined). If this reservoir is constructed it could be an Etowah Basin source for Forsyth County.
- Forsyth County on its own or in coordination with other Metro Water District Counties (such as Fulton and/or Cherokee Counties) could develop an Etowah basin source (either inside or outside Forsyth County) to supply a portion of its water needs.

#### Phasing Plan

Facilities (Note 2)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Cumming WTP	Lake Lanier	No expansions		24.0	No Expansions		24.0	Expansion	12.0	36.0	No Expansions		36.0
Forsyth WTP	Lake Lanier with possible Chattahoochee and/or Etowah Source	Expansion	16.83	30.73	Expansion	17.27	48.0	Expansion	12.0	60.0	Expansion	8.0	68.0
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>				<b>54.73</b>	<b>63</b> in Forsyth	<b>72</b>	<b>81</b> in Forsyth	<b>96</b>	<b>96</b> in Forsyth	<b>104</b>			

Notes:

1) Chattahoochee River and Etowah Basin Options are options being considered if Forsyth County and/or the City of Cumming are unable to secure additional permitted withdrawal from Lake Lanier.

2) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Forsyth County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with Cherokee, Fulton and Dawson Counties.

# Appendix B: COUNTY LEVEL SUMMARIES

## Fulton County

### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Fulton County	228	365
To Coweta County	6	10
<b>Total Projected Demand</b>	<b>234</b>	<b>375</b>
2006 Treatment Capacity	193	308.9
Additional Capacity Needed by 2035	41	66

### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Chattahoochee River	Atlanta	180	180	201.4
Chattahoochee River	Atlanta/Fulton Co.	90	116	155
Etowah River Source	Fulton County	0	15	20
Big Creek	Roswell	1.2	3.75	5
Sweetwater Creek	East Point	11.5	11.5	13.9
Cedar Creek Reservoirs	Palmetto	0.45	0.45	0.6
Bear Creek Reservoir	TBD	0	11	15
<b>Sum</b>		<b>283.15</b>	<b>337.70</b>	<b>410.9</b>

### Capital Projects

- Future expansion should be concentrated at the Atlanta-Fulton County WTP. This WTP draws from an upstream location and has an off-stream reservoir that improves its source reliability.
- The City of Atlanta should develop the 2.5-BG Bellwood Quarry Reservoir for storage and source reliability. Initial construction is anticipated for the 2011 to 2015 timeframe.
- The City of Atlanta should provide 10 PD-MGD of water to Coweta County.
- The infrastructure to provide water to Fayette and Clayton Counties on a peak emergency basis should also be maintained and expanded as necessary.
- Fulton County should consider developing a new water source in the Etowah basin (location to be determined), with an accompanying WTP, either on its own or in coordination with other Metro Water District Counties, such as Cherokee and/or Forsyth Counties.
- The Bear Creek Reservoir as currently planned and proposed has an estimated yield of 15 PD-MGD. A new WTP is proposed to be developed in conjunction with this reservoir.

### Phasing Plan

Facilities (Note 1, Note 2)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Atlanta-Fulton County WTP	Chattahoochee River	No expansions		90.0	Expand	45.0	135.0	No expansions		135.0	Expand	20.0	155.0
Fulton County Etowah WTP								Initial construction		10.0	Expand	10.0	20.0
	Fulton County Etowah Reservoir							Initial construction					
Atlanta Hemphill WTP	Chattahoochee River	No expansions		136.5	No expansions		136.5	No expansions		136.5	No expansions		136.5
Atlanta Chattahoochee WTP	Chattahoochee River	No expansions		64.9	No expansions		64.9	No expansions		64.9	No expansions		64.9
Roswell WTP (Note 3)	Big Creek	Expand	1.8	3.0	Expand	2.0	5.0	No expansions		5.0	No expansions		5.0
East Point WTP	Sweetwater Creek	No expansions		13.9	No expansions		13.9	No expansions		13.9	No expansions		13.9
Bear Creek WTP					Initial Construction		5.0	Expand	5.0	10.0	Expand	5.0	15.0
	Bear Creek Reservoir (Note 4)				New reservoir								
Palmetto WTP	Cedar Creek Reservoirs	No expansions		0.6	No expansions		0.6	No expansions		0.6	No expansions		0.6
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>300 in Fulton 4 to Coweta</b>		<b>308.9</b>	<b>306 in Fulton 5 to Coweta</b>		<b>360.9</b>	<b>330 in Fulton 6 to Coweta</b>		<b>375.9</b>	<b>365 in Fulton 10 to Coweta</b>		<b>410.9</b>

#### Notes:

- 1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing
- 2) Demand and capacity are based upon the combined total demand and capacity of Fulton County as a whole. No attempt has been made to analyze demand by individual service providers within Fulton County, or to consider existing service areas and previous bonding commitments associated with the development of existing infrastructure.
- 3) The City of Roswell plant expansions include additional yield from Big Creek, offline storage and augmenting supplies with well water.
- 4) The service provider for the Bear Creek Reservoir should be determined through the Fulton county HB 489 renegotiation process.

### Other Programs

The following programs are specific to Fulton County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections with Clayton, Fayette, Coweta, DeKalb, and Forsyth Counties.
- Evaluate required improvements to accommodate routine sale of 10 PD-MGD to Coweta County.

## Appendix B: COUNTY LEVEL SUMMARIES

### Gwinnett County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Gwinnett County	140	224
<b>Total Projected Demand</b>	<b>140</b>	<b>224</b>
2006 Treatment Capacity	142	227
Additional Capacity Needed by 2035	0	0

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD)	Planned 2035 Withdrawal (MGD)	
		Monthly	Monthly	Peak Day
Lake Lanier	Gwinnett Co.	150	169	225
Lake Lanier	Buford	2	4	5
<b>Sum</b>		<b>152</b>	<b>173</b>	<b>230</b>

#### Capital Projects

- Buford WTP expansion.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Gwinnett Lanier WTP	Lake Lanier	No expansions		150.0	No expansions		150.0	No expansions		150.0	No expansions		150.0
Gwinnett Shoal Creek WTP	Lake Lanier	No expansions		75.0	No expansions		75.0	No expansions		75.0	No expansions		75.0
Buford WTP	Lake Lanier	Expand	2.83	4.83	No expansions		4.83	No expansions		4.83	No expansions		4.83
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>				<b>229.83</b>	<b>185 in Gwinnett</b>	<b>229.83</b>	<b>205 in Gwinnett</b>	<b>229.83</b>	<b>224 in Gwinnett</b>	<b>229.83</b>	<b>224 in Gwinnett</b>	<b>229.83</b>	

Notes:

1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Gwinnett County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections with Hall, Fulton, DeKalb, Forsyth and Rockdale Counties.

## Appendix B: COUNTY LEVEL SUMMARIES

### Hall County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Hall County	52	83
<b>Total Projected Demand</b>	<b>52</b>	<b>83</b>
2006 Treatment Capacity	22	35
Additional Capacity Needed by 2035	30	48

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Lake Lanier	Gainesville	30	53	71
N Oconee River/Cedar Creek Reservoir	Gainesville	2	9	12
Glades Reservoir (Flat Creek)	Hall Co.	0	TBD	TBD
<b>Sum</b>		<b>32</b>	<b>62</b>	<b>83</b>

#### Capital Projects

- The Cedar Creek WTP should be constructed to 12 PD-MGD to fully utilize the yield of the Cedar Creek impoundment. This expansion will enable Hall County to partially meet its demand within the Oconee basin from an Oconee basin source. To fill the rest of the projected demand from Hall County, the City of Gainesville should construct one new WTP and expand one existing WTP.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Gainesville Lakeside WTP	Lake Lanier	No expansions		10.0	Expand	15.0	25.0	Expand	12.0	37.0	Expand	9.0	46.0
Gainesville Riverside WTP	Lake Lanier	No expansions		25.0	No expansions		25.0	No expansions		25.0	No expansions		25.0
Gainesville-Hall County Cedar Creek WTP (Note 2)	North Oconee River/Cedar Creek							Initial Construction	12.0	12.0	No expansions		12.0
	Glades Reservoir (Flat Creek)							New reservoir		-			
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>				<b>35</b>	<b>49 in Hall</b>		<b>50</b>	<b>66 in Hall</b>		<b>74</b>	<b>83 in Hall</b>		<b>83</b>

#### Notes:

- Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.
- Depending on the outcome of tri-state negotiations and available supply, the capacity at the Cedar Creek WTP may be transferred or shared with the expansion of the Lakeside WTP.

#### Non-Capital Programs

The following non-capital programs are specific to Hall County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with Gwinnett and White Counties.
- Continue to explore development of the Glades Reservoir.

## Appendix B: COUNTY LEVEL SUMMARIES

### Henry County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Henry County	43	69
<b>Total Projected Demand</b>	<b>43</b>	<b>69</b>
2006 Treatment Capacity	25	39.73
Additional Capacity Needed by 2035	19	30

#### Capital Projects

- Expansion of Towaliga and Tussahaw WTPs to meet future water needs. Towaliga can currently only support 42 PD-MGD.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035						
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)				
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)					
Henry Towaliga River WTP	S. Howell Gardner (Indian Creek) Reservoir and Rowland (Long Branch) Reservoir fed by Towaliga River Reservoirs (Strickland and Cole Reservoirs)	No expansions		24	No expansions		24	Expand	5	29	No expansions		29				
Henry Tussahaw WTP	Tussahaw Creek Reservoir	Expand	13	26	No expansions		26	Expand	13	39	Expand	13	52				
	Henry Co. Ocmulgee Reservoir							New reservoir									
McDonough WTP	Fargason (Walnut Creek) Reservoir	Expand	0.82	3.1	No expansions		3.1	No expansions		3.1	No expansions		3.1				
Locust Grove WTP	Brown Branch	No Expansions		0.45	No Expansions		0.45	No Expansions		0.45	No Expansions		0.45				
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>					<b>53.55</b>	<b>39 in Henry</b>			<b>53.55</b>	<b>53 in Henry</b>			<b>71.55</b>	<b>69 in Henry</b>			<b>84.55</b>

#### Notes:

1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Henry County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with DeKalb, Clayton, Newton, Butts and Spalding Counties.

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Gardner (Indian Creek) Reservoir	Henry Co.	8		
Rowland (Long Branch) Reservoir	Henry Co.	10		
Towaliga River Reservoirs (Strickland & Cole)	Henry Co.	Fills Gardner and Rowland Reservoirs	21.75	29
Tussahaw Creek Reservoir	Henry Co.	13		
Henry County Ocmulgee Reservoir	Henry Co.	0	39	52
Fargason (Walnut Creek) Reservoir	McDonough	2.4	2.4	3.1
Brown Branch	Locust Grove	0.3	0.34	0.45
<b>Sum</b>		<b>33.70</b>	<b>63.49</b>	<b>84.55</b>

## Appendix B: COUNTY LEVEL SUMMARIES

### Paulding County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Paulding County	47	75
From CCMWA	-23	-36
<b>Projected Demand Needs</b>	<b>24</b>	<b>39</b>
2006 Treatment Capacity	0	0
Additional Capacity Needed by 2035	24	39

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Richland Creek Reservoir	Paulding Co.	0	30	40
Sum		0	30	40

#### Capital Projects

- Paulding County will continue to rely on CCMWA for a portion of its water supply, as shown below in the phasing plan.
- The proposed Richland Creek Reservoir project is currently in the permitting process; the 300-acre impoundment has an estimated yield of 35 AAD-MGD.
- Once Richland Creek Reservoir is completed, Paulding County plans to construct a water treatment plant at the reservoir site; Paulding County will still need to purchase up to 36 PD-MGD from CCMWA.

#### Phasing Plan

Facilities (Note 1)	Sources	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)	
Paulding County WTP	Richland Creek Reservoir							Initial Construction	25	25	Expand	15	40
								New reservoir	-	-	No Expansions	-	-
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>		<b>26 in Paulding -26 from CCMWA 0 Total</b>		<b>0</b>	<b>36 in Paulding -36 from CCMWA 0 Total</b>		<b>0</b>	<b>58 in Paulding -36 from CCMWA 22 Total</b>		<b>25</b>	<b>75 in Paulding -36 from CCMWA 39 Total</b>		<b>40</b>

Notes:  
1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Paulding County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with Cobb County.
- Evaluate required improvements to accommodate routine purchase of 36 PD-MGD from CCMWA.



## Appendix B: COUNTY LEVEL SUMMARIES

### Rockdale County

#### Summary of Needs

Water Demands & Treatment Capacities	2035 Annual Average Day (AAD-MGD)	2035 Peak Day (PD-MGD)
Rockdale County	17	27
<b>Total Projected Demand</b>	<b>17</b>	<b>27</b>
2006 Treatment Capacity	14	22.1
Additional Capacity Needed by 2035	3	5.0

#### Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal (MGD) Monthly	Planned 2035 Withdrawal (MGD)	
			Monthly	Peak Day
Big Haynes Creek (Randy Poynter Lake)	Rockdale Co.	22.1	22.1	27.1
Sum		22.1	22.1	27.1

#### Capital Projects

- Projections indicate that the Randy Poynter Lake should provide adequate supply through 2035. Rockdale County should expand its WTP to meet demand growth through 2035. Infrastructure should be kept in place to allow transfers from DeKalb and Gwinnett Counties to fill peak demands on an emergency basis.

#### Phasing Plan

Facilities (Note 1)	Source	By 2010			2011 to 2015			2016 to 2025			2026 to 2035					
		Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)	Proposed Projects		Plant Capacity at End of Period (PD-MGD)			
		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)		Project Type	Project Capacity (PD-MGD)				
Rockdale WTP	Big Haynes Creek (Randy Poynter Lake)	No expansions		22.1	No expansions		22.1	Expand	5.0	27.1	No expansions		27.1			
<b>Demand Projections &amp; Total Capacity (PD-MGD)</b>					<b>22.1</b>	<b>19 in Rockdale</b>			<b>22.1</b>	<b>22 in Rockdale</b>			<b>27.1</b>	<b>27 in Rockdale</b>		

Notes:  
 1) Plan schedule shown above is intended to be a general guideline to identify treatment capacity needs. Expansion capacities should be in operation before the end of the periods shown above, while planning, design and expansions may begin in the previous period. Exact timing of expansions is to be determined by local water master planning. Specific conditions for withdrawal/operating permits will be determined by Georgia EPD.

#### Non-Capital Programs

The following non-capital programs are specific to Rockdale County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Maintain interconnections and water supply agreements with DeKalb, Gwinnett and Newton Counties.

[This page intentionally left blank]